WHAT IS CLAIMED IS:

1. A method of processing test data that is relevant to specific behavior of
visitors of at least one network accessible site comprising the steps of:
receiving pre-test information related to determining an
estimation of said anticipated behavior of said visitors to said at least one
network accessible site;
monitoring actual behavior of said visitors upon accessing sa
at least one network accessible site; and

employing said pre-test information and a Bayesian estimation approach to using said monitoring of said actual behavior so as to provide updated estimations of subsequent visitor behavior.

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- 2. The method of claim 1 wherein said step of receiving said pre-test information includes accessing a probability distribution characterization of said anticipated behavior, including utilizing confidence parameters that are based on confidence of accuracy of estimates.
- 3. The method of claim 1 wherein said behavior relates to whether said visitors are converted while accessing said at least one network accessible site, said pre-test information and said updated estimations being related to conversion rates.
- 4. The method of claim 1 wherein each said network accessible site is a website available via the global communications network referred to as the Internet.
- 5. The method of claim 1 further comprising a step of determining a required test sample size for said monitoring said actual behavior in order to provide said updated estimations of subsequent visitor behavior, including adaptively adjusting said determination of said required test sample size on a basis of achieving a target confidence regarding said updated estimations.

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- 1 6. The method of claim 5 wherein said step of determining said required test 2 sample size includes utilizing negative binomial sampling.
- 7. The method of claim 5 wherein said step of determining said required test sample size includes utilizing systematic sampling.
- 8. The method of claim 1 further comprising a step of determining a post-test estimation of said subsequent visitor behavior using a negative binomial
- sampling approach that is based on a required target confidence level.
- 9. The method of claim 8 wherein said negative binomial sampling approach is used to calculate a predicted conversion rate of a desired behavior at a website.
- - 10. A method of processing test data that is relevant to specific behavior of visitors of at least one network accessible site comprising the steps of:
 - detecting conversions at said at least one network accessible site, where said conversions are specific interactions that are entered by said visitors; and

utilizing negative binomial sampling to determine an adaptive minimum sample size for estimating a conversion rate for subsequent visitors, including basing said adaptive minimum sampling size and an estimate of said conversion rate on said detecting of said conversions and upon a measure of confidence.

- 11. The method of claim 10 wherein said step of utilizing negative binomial
- sampling includes determining a target number (m) of conversions and
- an anticipated number (T) of visitors in order to reach m, with T having a
- 4 negative binomial distribution and with said estimate of said conversion rate
- 5 being equal to m/T.

detected.

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12. The method of claim 10 wherein said detecting step includes monitoring 1 2 visitor activity in interaction with a website of the Internet. 1 13. The method of claim 10 wherein said measure of confidence is a 2 confidence level regarding accuracy of said estimate of said conversion rate. 14. A computerized system for processing test data that is relevant to 1 specific behavior of visitors of at least one network accessible site comprising: 2 a first module component configured to determine an initial 3 conversion-related estimate on a basis of pre-testing information; 4 5 a second module component configured to generate updates of 6 said conversion-related estimate in response to monitored behavior of said 7 visitors of said at least one network accessible site; and 8 a third module component configured to dynamically adjust a 9 measure of a required test sample size of said visitors while maintaining a target statistical confidence level. 10 1 15. The system of claim 14 further comprising a fourth module component 2 configured to utilize negative binomial sampling to generate measures of said 3 test sample size for generating said conversion-related estimate based on 4 sub-populations of said visitors, said third module component being distinguishable from said fourth module component by applying systematic 5 6 sampling rather than negative binomial sampling. 16. The system of claim 15 wherein said first, second, third and fourth 1 module components are cooperative to determine said conversion-related 2 3 estimates as point estimates of conversion rates of said visitors to act in a 4 desired manner, each said act being a conversion. 17. The system of claim 16 further comprising an execution module which 1 2 monitors said visitors of a website, such that conversions of said visitors are

- 1 18. The system of claim 14 wherein said second module component is
- 2 enabled to generate said updates utilizing Bayesian estimation.
- 1 19. The system of claim 14 wherein said third module component is enabled
- to utilize negative binomial sampling in determining said measure of said
- 3 required test sample size.